

ABSTRACT

Disclosed is a method for controlling uplink transmission power in a handover region by a UE in communication with a Node B using an FCS scheme. The UE stores
5 TPC commands received for a specific duration from a plurality of cells in an active set, if the UE enters in the handover region during communication with a current best cell. If a next best cell is selected from the plurality of the cells, the UE determines a transmission power offset by comparing TPC commands from the current best cell with TPC commands from the next best cell for the specific duration at a time point where
10 the best cell is changed from the current best cell to the next best cell. The UE transmits initial transmission power for the next best cell at a transmission power level determined considering the transmission power offset.